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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/853,634	05/14/2001	Masaaki Nishino	Q64483	7274
7590 06/14/2004				
SUGHRUE, MION, ZINN, MACPEAK & SEAS 2100 Pennsylvania Avenue, N.W. Washington, DC 20037			EXAMINER AMINI, JAVID A	
			ART UNIT 2672	PAPER NUMBER
			DATE MAILED: 06/14/2004	

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Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/853,634

Applicant(s)

NISHINO, MASAOKI

Examiner

Javid A Amini

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☐ Claim(s) \_\_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>11</u> . | 6) <input type="checkbox"/> Other: _____  |

***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 223, 2004 has been entered.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 rejected under 35 U.S.C. 102(e) as being anticipated by YUI.

1. Claim 1.

“An information displaying system, comprising: an A/D converting means for converting analog RGB signals inputted from a first input terminal to first digital RGB signals; a selecting means for selecting either second digital RGB 5 signals inputted from a second input terminal or said first digital RGB signals based on the inputted order, and for outputting third digital RGB signals being selected digital RGB signals; a screen mixing means comprising: a first memory for storing said third digital RGB signals and a second memory for storing digital information data inputted from a third input terminal, said screen mixing means detecting sizes of said third digital RGB signals and said digital information data, calculating designated

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control information, mixing said digital information data with said third digital RGB signals, generating a synchronization signal based on said designated control information, reading said third digital RGB signals from said first memory and said digital information data from said second memory based on said synchronization signal, and forming displaying data by mixing said third digital RGB signals read from said first memory and said digital information data read from said second memory, so that said digital information data are displayed at outsides of a displaying region of said third digital RGB signals, without overlap; and a displaying means for displaying said displaying data”.

Yui in fig. 1 illustrates the A/D conversion as the moving image input part 8b has an A/D converter and a PPL (Phase Locked Loop) circuit for sampling the image data if the inputted image data is analog signals. Yui in fig. 4 allocates different memory addresses for different signal sources. Examiner's interpretation: in fig. 4 the starting address is equivalent to a first memory, and starting address 1 is equivalent to a second memory, and so on. The pc images are considered to be digital signals. Yui in fig. 3, detects sizes, calculates control information, mixes analog with digital signals, the process goes to a step S203 to determine a display layout on a screen, to which the images are inputted from at least one image source that is detected as being connected to the multi-screen display system. In the initialization of the display, the images are displayed in a layout of a predetermined default. In the following step S204, it is determined whether images are overlapped on the determined display layout. If images are overlapped, a display starting position and a display ending position, horizontal and vertical enlargement/reduction magnifications on the display device 16 of each image source are written in the RAM 24, and then the process goes to a step S205. If no images are overlapped, a

display starting position and a display ending position, horizontal and vertical enlargement/reduction magnifications on the display device 16 of each image source are written in the RAM 24, and then the process goes to a step S206 skipping through the step S205. Yui in fig. 6 illustrates the output composition part 18 has a composition control part 30. The composition control part 30 generates a variety of control signals acquired by the comparison between a horizontal pixel counter and a vertical line counter operating according to synchronous signals (Hsync, Vsync). Yui in fig. 5 illustrates the digital information data are OSD or PC image displayed at outsides of the DTV image, without overlap. Yui in fig. 7 illustrates the dimension for each region.

2. Claim 2.

“An information displaying system in accordance with claim 1, wherein: said designated control information comprises a dot clock frequency, a horizontal synchronizing frequency, a vertical synchronizing frequency, a front porch, a back porch, and a pulse width, so that said displaying data are displayed on said displaying means”, Yui in col. 7, lines 29-38 discloses the moving image input parts (see fig. 1) 8a, 8b, 8c capture the image data from three image sources 1a, 1b, 1c in different timings. At the same time as the capture of the image data, the moving image input parts 8a, 8b, 8c capture control signals for capturing the image data; e.g., a horizontal synchronous signal for synchronizing one line, a vertical synchronous signal for synchronizing one frame or one field, a clock signal for sampling a pixel, and a display enable signal indicating a transfer period of effective pixel data. Applicant is claiming a front porch a back porch that recognizes common display formats and adjusts to the correct sync. Yui in col. 6,

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lines 56-57 discloses an image decoding part 6 decodes the MPEG2 video data, and converts the video data into a raster scan display format.

3. Claim 3.

“An information displaying system in accordance with claim 1, wherein: said screen mixing means forms said displaying data comprising digital information data displayed on at least one region of at least one of upper, lower, right, and left end parts which are outside of said displaying region of said third digital RGB signals”, Yui in figs. 5 and 7 illustrates the limitations.

4. Claim 4.

“An information displaying system in accordance with claim 1, wherein: said screen mixing means outputs said displaying data by applying scaling to said displaying data so that said displaying data correspond to the resolution of said displaying means”, Yui in col. 7, lines 39-48 discloses the image data captured into the moving image input parts (see fig. 1) 8a, 8b, 8c are processed in a predetermined manner, and are then inputted to corresponding resolution converting parts 9a, 9b, 9c. The resolution converting parts 9a, 9b, 9c have a function of converting a display format (i.e., the number of display lines, the number of dots and the number of colors) of the inputted image data under the control of the multi-screen control part 10, and have a bus interface function of outputting the image data to a common graphic bus 22.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5 and 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Yui, and further in view of Champion et al. (hereinafter refers as Champion).

5. Claim 5.

“An information displaying system in accordance with claim 1, wherein: said screen mixing means outputs said displaying data by converting said displaying data to analog RGB signals”, Yui does not explicitly specify the conversion of displaying data to analog RGB signals, however Champion in fig. 6 item 41 illustrates the limitation. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Champion into Yui in order to use the conversion step 41 in fig. 6 of Champion’s invention. The motivation to modify Yui’s invention is as follow: to provide a system for overlaying motion video signals on computer graphics such as would be used in a real-time computer video conferencing system, wherein such system would be operable within most computers, including laptops, network computers, and sealed computers, but would not require modification of existing computer hardware and software, and thus would not necessitate increased cost and added inconvenience to the user.

6. Claim 6.

“An information displaying system in accordance with claim 1, further comprising: a D/A converting means for converting said displaying data to analog RGB signals”, See rejection in claim 5.

***Conclusion***

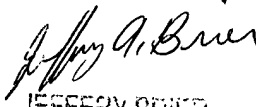
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A Amini whose telephone number is 703-605-4248. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 703-305-4713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Javid A Amini  
Examiner  
Art Unit 2672

Javid Amini

  
JEFFERY BRIER  
PRIMARY EXAMINER